Course Information Document: Undergraduate

For students starting in Academic Year 2022/23

1. Course Summary

Names of programme and award title(s)	BSc (Hons) Pharmaceutical and Cosmetic Science
Award type	Single Honours
Mode of study	Full-time
Framework of Higher Education Qualification (FHEQ) level of final award	Level 6
Normal length of the programme	3 years
Maximum period of registration	The normal length as specified above plus 3 years
Location of study	Keele Campus
Accreditation (if applicable)	n/a
Regulator	Office for Students (OfS)
Tuition Fees	**UK students:** Fee for 2022/23 is £9,250* **International students:** Fee for 2022/23 is £24,200**

How this information might change: *Please read the important information at http://www.keele.ac.uk/student-agreement/. This explains how and why we may need to make changes to the information provided in this document and to help you understand how we will communicate with you if this happens.*

** These fees are regulated by Government. We reserve the right to increase fees in subsequent years of study in response to changes in government policy and/or changes to the law. If permitted by such change in policy or law, we may increase your fees by an inflationary amount or such other measure as required by government policy or the law. Please refer to the accompanying Student Terms & Conditions. Further information on fees can be found at http://www.keele.ac.uk/studentfunding/tuitionfees/*

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2. What is a Single Honours programme?

The Single Honours programme described in this document allows you to focus more or less exclusively on this subject. In keeping with Keele's commitment to breadth in the curriculum, the programme also gives you the opportunity to take some modules in other disciplines and in modern foreign languages as part of a 360-credit Honours degree. Thus it enables you to gain, and be able to demonstrate, a distinctive range of graduate attributes.

3. Overview of the Programme

Cosmetic science is a unique field which focuses on exciting new formulation developments in fast-moving consumer markets. As a student taking this course, you will develop an understanding of the underlying physical and biological sciences and learn how to apply them to the development, formulation, manufacture and marketing of cosmetic products whilst addressing the key contexts of sustainability and globalization.

The cosmetics industry is a huge, multi-national undertaking that is underpinned by world-leading expertise in the physical and physiological sciences. It sits within a framework of intense market research and is a highly competitive and fast-moving, highly regulated industry. It is also inter-linked, both in industrial providers and science base, with home and personal care products, consumer healthcare and some also some pharmaceutical products.

Underpinning this industry, despite perceptions which align it mostly with the end user, is a strong science base in formulation and skin science; more broadly this extends (based on legal definitions) to the topical / surface / superficial application of products for cosmetic purposes. This course covers the main aspects of cosmetic formulation development, manufacture, regulation and marketing, and explains how such pure and applied sciences fit into global business, legal and regulatory frameworks. This includes elements of regulatory approval and the role of the formulation scientist within the industry team that takes a new product from concept to market.

As part of the preparation to enter the global cosmetics industry, there will be an opportunity to pursue a language pathway throughout the programme. In the first year you can choose to take a language module in English (depending on fluency levels) or a modern foreign language for those fluent in English. This will ensure you have the opportunity to understand both a language and cultural issues of nations outside your home country. For modern languages (not English language modules) you may wish to pursue a pathway through the programme that will provide you with recognition of this on your degree certificate. There will be opportunities at years two and three of the programme, depending on entry level to your chosen language and availability, to take further credits of language learning on this programme. Depending on the level of language attainment you may have added to your degree certificate the additional recognition of having achieved "with competency in [Chosen Language]" or "with advanced competency in [Chosen Language]". For full details see here: https://www.keele.ac.uk/study/languagecentre/modernlanguages/enhanceddegreetitles/.You can also take language modules as non-credit extracurricular study throughout your programme - further details can be obtained from the Language Centre.

The principal aim of the programme is to develop knowledge and skills in a wide variety of disciplines by demonstrating the linkages between seemingly disparate topics in science and technology that underpin all subsequent learning, and which are central to the successful delivery of new medicines to global markets.

4. Aims of the programme

The aims of this programme are to equip students who successfully complete it to understand the multi-faceted nature of the cosmetics (and related) industries, and to apply their fundamental knowledge of science to real-world requirements, including understanding and addressing formulation challenges within the context of international regulatory and legal frameworks and the context of an industry that is increasingly focused on environmental sustainability.

The broad aims of the programme are to enable you to:

- Develop the key scientific skill that, in an integrated context, underpin the development, manufacture, regulatory approval and marketing of cosmetic and related products
- Understand the structures and frameworks in which the cosmetic industry operates, both nationally and globally

5. What you will learn

The intended learning outcomes of the programme (what students should know, understand and be able to do at the end of the programme), can be described under the following headings:

- Subject knowledge and understanding - (K)
- Subject specific skills - (S)
- Key or transferable skills (including employability skills) - (E)
- Intellectual skills - (I)

Subject knowledge and understanding (K)

Successful students will be able to:

- K1 - Understand the core principles of the cosmetic sciences as they are applied to the development,

manufacture and marketing of cosmetic and related products;
- K2 - Appreciate and explore the core underpinning sciences related to the cosmetic sciences, such as chemistry, biological sciences, toxicology and formulation science;
- K3 - Appreciate the role of legislation in a range of territories in marketing safe and effective cosmetic products, supported by substantive claims;
- K4 - Describe key issues in supply chain management and apply them to the sustainable development of cosmetic products;
- K5 - Demonstrate a comprehensive understanding of the research in cosmetic science and apply this to emerging challenges in specific research areas;
- K6 - Communicate effectively the key scientific, marketing, safety and sustainable issues underpinning cosmetic product development.

Subject specific skills (S)

Successful students will be able to:

- S1 - Appreciate and explore the chemical, physical and biological sciences that underpin cosmetic science and that are required in order to understand the design and formulation of suitable cosmetic products and their interaction with consumers;
- S2 - Appreciate the nature of cosmetic product development, both in the laboratory and in the business environments, and to use this knowledge in the development of new strategies to develop new and novel formulations; this will be conducted in the context of the safety, legal and regulatory framework associated with cosmetic science formulation, development and marketing in a sustainable environment
- S3 - Appreciate and explain the key aspects of toxicology as they relate to the use of cosmetic products by consumers, including the role of product and ingredient testing and clinical evaluation of their safety and toxicity;
- S4 - Explain the key aspects of international regulatory and legislative requirements for cosmetic products and critically evaluate how these regulations sit in the context of product / ingredient claims and branding / advertising;
- S5 - Identify and describe the key issues in supply chain management, and interpret how this impacts on formulation design and market delivery, including the development of sustainable supply chains;
- S6 - Critically evaluate current research and advanced scholarship relevant to the chosen research area;
- S7 - Demonstrate a comprehensive understanding of research techniques and self-management skills in order to plan a programme of research at a professional level;
- S8 - Communicate effectively, verbally and in writing, the key scientific concepts and market strategies that underpin safe, effective and commercially viable development of cosmetic products in a wide range of territories

Key or transferable skills (including employability skills) (E)

Successful students will be able to:

- E1 - Appreciate and understand how the core chemical and biological sciences integrate to underpin the successful development of cosmetic and related products, a core skills base which is directly applicable to a number of other "fast-moving goods" industries (e.g. pharmaceuticals, home and personal care products, foods);
- E2 - Develop an open and questioning approach to ideas, demonstrating curiosity, independence of thought and the ability to appreciate a range of perspectives on the natural and social worlds, including constructively using feedback and evidence-informed decisions;
- E3 - Locate, evaluate and synthesise large amounts of frequently conflicting information, ideas and data in order to develop novel, safe and effective cosmetic products;
- E4 - Identify and manage appropriate resources to creatively solve problems, either individually or as a member of a team or professional group, using a range of different approaches and techniques, underpinned by evidence from research, and to determine which techniques are appropriate to apply to the development of novel, safe and effective cosmetic products;
- E5 - Appreciate the social, environmental and global implications of your studies and other activities, including recognition of ethical implications, sustainability of supply chains and their environments, across a range of territories;
- E6 - Communicate clearly and effectively in written and verbal forms for different purposes and to a variety of audiences.

Intellectual skills (I)

Successful students will be able to:

- I1 - Think independently and inventively by demonstrating understanding of recent advances in the area of practice.
- I2 - Construct complex arguments to assert positions and solve problems with original approaches.
- I3 - Critically consider aspects of contrasting theories in the area of practice and take intellectual risks.
- I4 - Gather and evaluate information, data, assumptions to make reasoned decisions and formulate innovative solutions.

Keele Graduate attributes

Engagement with this programme will enable you to develop your intellectual, personal and professional capabilities. At Keele, we call these our ten Graduate Attributes and they include independent thinking, synthesizing information, creative problem solving, communicating clearly, and appreciating the social, environmental and global implications of your studies and activities. Our educational programme and learning environment is designed to help you to become a well-rounded graduate who is capable of making a positive and valued contribution in a complex and rapidly changing world, whichever spheres of life you engage in after your studies are completed.

Further information about the Keele Graduate Attributes can be found here: http://www.keele.ac.uk/journey/

6. How is the programme taught?

Learning and teaching methods used on the programme vary according to the subject matter and level of the module. They include the following:

- Lectures, tutorials and workshops;
- Problem-solving sessions;
- Interactive and immersive 3D teaching in the Health Cinema;
- Laboratory work (individual and group exercises);
- The integrated 'synoptic' assessment. This is key component of our commitment to social learning which integrates the differing science subjects with the business (e.g. regulatory and legal) aspects of the programme to develop relevant products to consumers across diverse marketplaces.

The School of Pharmacy and Bioengineering's commitment to digital technologies has been embedded in all our programmes since they have been created. This includes teaching sessions delivered in the Health Cinema which utilise 3D technologies to enhance learning and the use of online methods of delivery (currently embedded using MS Teams and Panopto) for individual and group teaching sessions as well as embedding online technology in programme assessments. This diversity and flexibility in our approach to teaching and learning ensures that we can optimise the learning environment and tailor it to match expectations for all students, and that we can quickly respond to prevailing approaches when required.

Apart from these formal activities, as a student on this programme you are also provided with regular opportunities to talk through particular areas of difficulty, and any special learning needs they may have, with their Personal Tutors or module lecturers on a one-to-one basis.

These learning and teaching methods enable you to achieve the learning outcomes of the programme in a variety of ways. For example:

- The use of a wide range of assessment skills allow us to focus on different aspects of the challenges faced in cosmetic and related formulation development; for example, this might include the use of individual or group-based activities, oral presentation sessions or student-led workshops where decision making is both collective and led by students; research projects may also give you the ability to work on a major piece of novel research not only by themselves but in collaboration with students taking similar projects and within the setting of research groups with the School of Pharmacy and Bioengineering.
- In collaboration with Learning Science we have designed and implemented novel interactive laboratory worksheets which provide instant, bespoke feedback and are self-marking. This provides detailed, instant and specific personalised feedback. This system automatically recognises Keele's virtual learning environment, automatically updating your academic record.
- Embedded within these interactive worksheets are a number of fully interactive simulations which link to practical work, providing a strong template from which successful learning and assessment will result.

7. Teaching Staff

The staff who deliver this course are based predominately within the School of Pharmacy and Bioengineering and have expertise in the core aspects of the pharmaceutical and cosmetic sciences: pharmacology, physiology, medicinal and organic chemistry and formulation and toxicology. In addition, several members of the School's academic staff have previously worked in the pharmaceutical and cosmetics industries, and who are therefore able to frame their academic work within the context of their previous roles.

The BSc programme also makes significant use of expert external speakers who are, or have worked, in the cosmetics industry or related industries. This includes a range of business-focused roles and addresses with real world examples subjects as diverse as clinical development, marketing and branding of cosmetic products, the role of healthcare systems in the context of cosmetic product sales and regulatory affairs.

The University will attempt to minimise changes to our core teaching teams, however, delivery of the programme depends on having a sufficient number of staff with the relevant expertise to ensure that the programme is taught to the appropriate academic standard.

Staff turnover, for example where key members of staff leave, fall ill or go on research leave, may result in changes to the programme's content. The University will endeavour to ensure that any impact on students is limited if such changes occur.

8. What is the structure of the Programme?

The academic year runs from September to June and is divided into two semesters. The number of weeks of teaching will vary from programme to programme, but you can generally expect to attend scheduled teaching sessions between the end of September and mid-December, and from mid-January to the end of April. Our degree courses are organised into modules. Each module is usually a self-contained unit of study and each is usually assessed separately with the award of credits on the basis of 1 credit = 10 hours of student effort. An outline of the structure of the programme is provided in the tables below.

There are two types of module delivered as part of your programme. They are:

- Compulsory modules - a module that you are required to study on this course;
- Optional modules - these allow you some limited choice of what to study from a list of modules;

A summary of the credit requirements per year is as follows, with a minimum of 90 subject credits (compulsory plus optional) required for each year.

For further information on the content of modules currently offered, including the list of elective modules, please visit: https://www.keele.ac.uk/recordsandexams/modulecatalogue/

Year	Compulsory	Optional		Electives	
		Min	Max	Min	Max
Level 4	105	0	15	0	15
Level 5	90	15	30	0	15
Level 6	90	15	30	0	15

Students must take 120 credits of learning. At Level 4 105 credits of learning is core and will be taken by all students. The remaining 15 credits can be taken from the optional or elective modules listed in this document.

Module Lists

Level 4

Students will take 105 credits of compulsory modules, PHA-10028, PHA-10030, PHA-10032 and PHA-10038.

PHA-10028 and PHA-10030 are shared with the BSc Pharmaceutical Science (with Business) and with the BSc in Cell and Tissue Engineering; PHA-10032 is shared with the BSc Pharmaceutical Science (with Business) and focuses on introducing the core pharmaceutical sciences to students.

Students will therefore take 15 credits of optional or elective modules. Students will have four optional or elective pathways to select from:

1. Global Challenge Pathway (elective)
2. A module from those available from the Language Centre (option)
3. A module from those available from the Business School (option)
4. PHA-10036 Introduction to Formulation Science (option)

All optional module selections are subject to availability and compatibility with the School of Pharmacy & Bioengineering timetable for compulsory modules.

Further details of these pathways can be found below.

Compulsory modules	Module Code	Credits	Period
Human Anatomy and Physiology	PHA-10028	30	Semester 1-2
Biochemistry & Cell Biology	PHA-10030	30	Semester 1-2
Introduction to Pharmaceutical Science	PHA-10032	30	Semester 1-2
Introduction to Cosmetic Science	PHA-10038	15	Semester 2

Optional modules	Module Code	Credits	Period
Management in Context	MAN-10018	15	Semester 1
Marketing Principles	MAN-10019	15	Semester 1
Global Business Environment	MAN-10022	15	Semester 1
Introduction to Formulation Science	PHA-10036	15	Semester 1
Introduction to International Business	MAN-10023	15	Semester 2
Multinational Enterprise Business Perspectives	MAN-10026	15	Semester 2

Additional information on optional and elective modules.

Optional modules: Languages and English for Academic Purposes

A module from those available from the Language Centre (one or two 15-credit modules, and when two such modules are selected this means that normally one module is taken in each semester and are consecutive and ascending in number):

Semester One modules: BSL-90001/3, CHI-90001/3/5, FRE-90001/3/5/7/9, GER-90001/3/5/7/9, JAP-90001/3/5, RUS-90001/3/5, SPN-90001/3/5/7/9

Semester Two modules: BSL-90002/4, CHI-90002/4/6, FRE-90002/4/6/8/10, GER-90002/4/6/8/10, JAP-90002/4/6, RUS-90002/4/6, SPN-90002/4/6/8/10

Please also note that the programme specification notes that the above language modules can be replaced for students whose first language is not English and who require suitable English language support. In those cases those students can be enrolled onto:

ENL-90001 English for Academic Purposes 3 (EAP 3), ENL-90002 English for Academic Purposes 4 (EAP 4), ENL-90003 English for Academic Purposes 2 (EAP 2) or ENL-90013 Academic English for Science Students

If any of these modules are required they are allocated following consultation between the student and the Language Centre.

All modules are subject to change and availability. The level allocated to students will be determined by the Language Centre following an assessment of language ability.

Students on this programme will also be able to study language modules offered by the Language Centre, either as part of a Global Challenge Pathway or as optional modules, and may be able to achieve an enhanced degree title with the designation 'With (advanced) Competency in [language]', depending on the level of language attainment they achieve at Keele. For full details of how language modules can be accommodated within your programme of study,
click https://www.keele.ac.uk/study/languagecentre/modernlanguages/enhanceddegreetitles/

Students who are required to take an English for Academic Purposes (EAP) module as a result of their language competency test result will be required to pick this as their first option choice. *NB:* students can take an EAP module only with the approval of the English Language Programme Director and are not able to take any other Language module in the same academic year.

Elective modules:

Global Challenge Pathways (GCPs) - Level 4 (year 1) students only

Students at Level 4 in 2022/23 have the option of taking a Global Challenge Pathway, which includes one 15-credit module in each year of the degree. Global Challenge Pathways offer students the chance to fulfil an exciting, engaging route of interdisciplinary study. Choosing a pathway, students will be presented with a global issue or 'challenge' which directly relates to societal issues, needs and debates. They will be invited to take part in academic and external facing projects which address these issues, within an interdisciplinary community of students and staff. Students completing a Global Challenge Pathway will receive recognition on their degree certificate.

Digital Futures	The Digital Futures pathway offers you the opportunity to become an active contributor to current debates, cutting-edge research, and projects with external partners, addressing both the exciting potential and the challenges of disruptive digital transformation across all spheres of life. Part of a diverse and interdisciplinary pathway community, you will engage in exciting, impactful collaborative project work in innovative formats. Engaged in real-world scenarios, you will use digital technology and creativity to promote inclusive, empowering, and sustainable change at local and global levels. **Module**: **A digital life: challenges and opportunities (GCP-10005)**
Climate Change & Sustainability	Through the Climate Change & Sustainability pathway you will develop the skills, understanding and drive to become agents of change to tackle climate change and wider sustainability challenges. You will work with international partners to explore climate change and sustainability in different international contexts; lead your own projects to drive real change in your communities; and be part of educating others to help achieve a more sustainable future. **Module**: **Climate Change & Sustainable Futures: Global Perspectives (GCP-10009)**
Social Justice	Students on this pathway will embark on a reflective journey drawing upon decolonising, feminist, and ethical perspectives on social justice, forging transformative outputs as agents of change. You will enter a dialogue with local, national, and international partners from Universities, NGOs, International Human Rights Committees. You will engage with key societal challenges, for example Covid 19 as a social crisis with impact on gender and racial identities. The pathway will allow you to monitor and critically evaluate policies and human rights treaties, and produce and disseminate digitally fluent, international and sustainable project findings. **Module**: **Reflections on Social Injustices, Past and Present (GCP-10003)**
Enterprise & the Future of Work	If we are to achieve the promise of Sustainable Development Goals, solve the climate crisis and take advantage of the changes that the digital revolution provide, we need to understand the power of enterprise and prepare for future contexts of work, creativity and disruption. Supporting you to be part of future-facing solutions, this pathway will give you the ability to make judgements on the utilisation of resources, labour and capital. It will support you in developing creative, original thinking, allowing you to collaborate on projects that persuade and effect change, setting you up to thrive in future environments of work and innovation. **Module**: **Enterprise and the Future of Work 1 (GCP-10007)**

Global Health Challenges	By taking the global health challenge pathway you will develop solutions to improve the health and quality of life for particular people and communities, engaging with these groups to co-design interventions. This pathway will provide you with skills that go beyond a focus on health and will allow you to develop your ability to work in a team and lead change in society. The knowledge, skills and work experience will complement your core degree and enhance your career opportunities and graduate aspirations. **Module**: **Key concepts and challenges in global health (GCP-10001)**
Languages & Intercultural Awareness	By choosing modules from this pathway, will develop a practical knowledge of a specific language, allowing you to graduate with an enhanced degree title, or develop skills to teach English as a Foreign Language. You will meet and communicate with speakers different linguistic and cultural communities, ranging from students at partner universities in Japan and China, to refugees in Hanley, and develop an understanding of how languages and cultures interact. This pathway explores the power of language as a force both for breaking down and building cultural and political barriers - words can be weapons as well as bridges. You will examine how language is used, examine linguistic choices and how these impact on intercultural understanding. Throughout the pathway we also examine the practice of communication across cultural contexts, exploring cultural differences such as the language of ethnicity and gender. **Modules**: **you will be able to select from either a Modern Language of your choice OR Certificate in TESOL Level 1.**

Level 5

Students will take 90 credits of compulsory modules: PHA-20030, PHA-20032 and PHA-20034.

Students will therefore also take either:

(a) up to 30 credits of optional modules, or

(b) 15 credits of elective modules and 15 credits of optional modules.

Students will have three **optional** pathways which they may select from:

1. A module from those available from the **Language Centre** (one or two 15-credit modules, and when two such modules are selected this means that normally one module is taken in each semester and are consecutive and ascending in number):

Semester One modules: BSL-90001/3, CHI-90001/3/5, FRE-90001/3/5/7/9, GER-90001/3/5/7/9, JAP-90001/3/5, RUS-90001/3/5, SPN-90001/3/5/7/9

Semester Two modules: BSL-90002/4, CHI-90002/4/6, FRE-90002/4/6/8/10, GER-90002/4/6/8/10, JAP-90002/4/6, RUS-90002/4/6, SPN-90002/4/6/8/10

Please also note that the programme specification notes that the above language modules can be replaced for students whose first language is not English and who require suitable English language support. In those cases those students can be enrolled onto:

ENL-90001 English for Academic Purposes 3 (EAP 3), ENL-90002 English for Academic Purposes 4 (EAP 4), ENL-90003 English for Academic Purposes 2 (EAP 2) or ENL-90013 Academic English for Science Students

If any of these modules are required they are allocated following consultation between the student and the Language Centre.

All modules are subject to change and availability. The level allocated to student will be determined by the Language Centre following an assessment of language ability.

2. Two modules from those available from the **Business School** (one, 15-credit module).

3. One 15-credit module from the Language Centre and one 15-credit module from the Keele Business School.

All optional module selections are subject to availability and compatibility with the School of Pharmacy & Bioengineering timetable for compulsory modules.

Students will be encouraged to take one optional module in each semester but it is appreciated that this might not always be possible. Where two or more optional modules are selected in the same academic year the availability of modules will depend on the exact choice made in order to avoid overlap.

Students will have one **elective** pathway which they may select from:

1. The **Global Challenge Pathway**

(module details to follow ahead of 2023/24)

Compulsory modules	**Module Code**	**Credits**	**Period**
Fundamental Formulation Science (Cosmetic Science)	PHA-20032	30	Semester 1
Cosmetic Product Quality Assurance and Quality Control	PHA-20030	30	Semester 1-2
Applied Formulation Science (Cosmetic Science)	PHA-20034	30	Semester 2

Optional modules	**Module Code**	**Credits**	**Period**
Organisational Behaviour	MAN-20055	15	Semester 1
Operations and Quality Management	MAN-20053	15	Semester 2

Level 6

Students will take 90 credits of compulsory modules.

PHA-30045 Cosmetic Claims (15 credits)

PHA-30047 Cosmetic Science Research Project (30 credits)

PHA-30049 Sustainability And Supply Chain Management In The Cosmetics Industry (15 credits)

PHA-30051 Regulatory Toxicology And Pharmacology (15 credits)

PHA-30053 Advanced Formulation Science (Cosmetic Science) (15 credits)

Students will therefore also take either:

(a) up to 30 credits of optional modules, or

(b) 15 credits of elective modules and 15 credits of optional modules.

Students will have three **optional** pathways which they may select from:

1. **Two 15-credit modules from those available from the Language Centre** (two 15-credit modules, and when two such modules are selected this means that normally one module is taken in each semester and are consecutive and ascending in number):

Semester One modules: BSL-90003, CHI-90003/5, FRE-90003/5/7/9, GER-90003/5/7/9, JAP-90003/5, RUS-90003/5, SPN-90003/5/7/9

Semester Two modules: BSL-90004, CHI-90004/6, FRE-90004/6/8/10, GER-90004/6/8/10, JAP-90004/6, RUS-90004/6, SPN-90004/6/8/10

(The above list is indicative only and reflects current options available at the time of writing; this list may

change and modules may be added to, or removed from, this list).

2. **One 15-credit modules from those available from the Language Centre** (see module details in 1, above) **AND PHA-30017.**

3. **PHA-30019 Current Topics In Pharmaceutical Sciences** (30 credits)

Students will have one **elective** pathway which they may select from:

1. The **Global Challenge Pathway**

(module details to follow ahead of 2024/25)

Compulsory modules	**Module Code**	**Credits**	**Period**
Sustainability And Supply Chain Management In The Cosmetics Industry	PHA-30049	15	Semester 1
Regulatory Pharmacology and Toxicology (Cosmetics)	PHA-30051	15	Semester 1
Cosmetic Science Research Project	PHA-30047	30	Semester 1-2
Advanced Formulation Science (Cosmetic Science)	PHA-30053	15	Semester 1-2
Cosmetic Claims	PHA-30045	15	Semester 2

Optional modules	**Module Code**	**Credits**	**Period**
Current Developments in Pharmaceutical Science II	PHA-30017	15	Semester 1-2
Current Developments in Pharmaceutical Science	PHA-30019	30	Semester 1-2

9. Final and intermediate awards

Credits required for each level of academic award are as follows:

Honours Degree	360 credits	You will require at least 120 credits at levels 4, 5 and 6 You must accumulate at least 270 credits in your main subject (out of 360 credits overall), with at least 90 credits in each of the three years of study, to graduate with a named single honours degree in this subject. In addition, students whose credits include 45 credits for modules provided by The Language Centre can, depending on the CEFR-level of those modules, be additionally awarded the notation on their degree certificate of "with competency" or "with advanced competency" in their chosen language.
Diploma in Higher Education	240 credits	You will require at least 120 credits at level 4 or higher and at least 120 credits at level 5 or higher
Certificate in Higher Education	120 credits	You will require at least 120 credits at level 4 or higher

10. How is the Programme Assessed?

The wide variety of assessment methods used on this programme at Keele reflects the broad range of

knowledge and skills that are developed as you progress through the degree programme. Teaching staff pay particular attention to specifying clear assessment criteria and providing timely, regular and constructive feedback that helps to clarify things you did not understand and helps you to improve your performance. The following list is representative of the variety of assessment methods used on your programme:

- The assessments used in this programme reflect a wide range of academic practice and are also designed to be relevant to the needs of the industry. For example, the synoptic assessment collates and integrates learning across science and business in a social context at Level Five of the programme, whilst the use of batch record sheets in laboratory sessions reflect practice in industry (pharmaceutical and otherwise). The main modes of assessment are examinations (essay-based, short-answer questions and multiple choice questions), laboratory practical exercises (with associated report-writing and documentation completion, as well as physical sample preparation and analysis), workshops (including pharmaceutical calculations), group and individual presentations and synoptic exercises.

Marks are awarded for summative assessments designed to assess your achievement of learning outcomes. You will also have the opportunity to take formative assessments, which will enable you to monitor your own progress and to assist staff in identifying and addressing any specific learning needs. Feedback, including guidance on how you can improve the quality of your work, is also provided on all summative assessments - normally within three working weeks of submission, unless there are compelling circumstances that make this impossible - and more informally in the course of tutorial and seminar discussions.

At all levels (4-6), Low Stakes Assessments (LSAs) have been introduced to aid your engagement with the course. These contribute to a range of assessments at all levels.

11. Contact Time and Expected Workload

This contact time measure is intended to provide you with an indication of the type of activity you are likely to undertake during this programme. The data is compiled based on module choices and learning patterns of students on similar programmes in previous years. Every effort is made to ensure this data is a realistic representation of what you are likely to experience, but changes to programmes, teaching methods and assessment methods mean this data is representative and not specific.

Undergraduate courses at Keele contain an element of module choice; therefore, each individual undertaking this programme will experience a different mix of contact time and assessment types dependent upon their own individual choice of modules. The figures below are an example of activities that you may expect on your chosen course by year stage of study. Contact time includes scheduled activities such as: lecture, seminar, tutorial, project supervision, demonstration, practical classes and labs, supervised time in labs/workshop, fieldwork and external visits. The figures are based on 1,200 hours of student effort each year (for full-time students).

Activity

	Scheduled learning and teaching activities	**Guided independent Study**	**Placements**
Year 1 (Level 4)	33%	67%	0%
Year 2 (Level 5)	29%	71%	0%
Year 3 (Level 6)	29%	71%	0%

12. Accreditation

This programme is not currently accredited by an external body. We are seeking to begin the process of applying for accreditation for this programme in the upcoming academic year.

13. University Regulations

The University Regulations form the framework for learning, teaching and assessment and other aspects of the student experience. Further information about the University Regulations can be found at: http://www.keele.ac.uk/student-agreement/

14. Other Learning Opportunities

Study abroad (semester)

Study abroad is not currently available for this programme

15. Additional Costs

As to be expected there will be additional costs for inter-library loans and potential overdue library fines, print costs and graduation. We do not anticipate any further costs for this undergraduate programme.

Version History

This document

Date Approved: 03 March 2022

Previous documents

Version No	Year	Owner	Date Approved	Summary of and rationale for changes